

Roscosmos: Cause of Progress M-27M's Emergency Established

On June 1, 2015, the state commission investigating the reasons of the emergency launch of April 28, 2015, revealed its conclusions (Soyuz-2.1A carrier rocket with Progress M-27M cargo transport spacecraft was launched from Baikonur cosmodrome within the framework of the design and flight tests of the rocket and spacecraft complex of Progress M cargo transport spacecraft and Soyuz-2 carrier rocket, level 1A).

The complete analysis of the emergency's causes and natural experiments have led to the following conclusion:

the cause of the spacecraft's damage resulting from irregular detachment of the cargo transport spacecraft from the 3rd stage of the carrier rocket LIES IN THE PECULIARITY OF THE CONSTRUCTION OF THE COMPLEX OF THE CARGO SPACECRAFT AND THE CARRIER ROCKET, related to the frequency and dynamic characteristics of the complex of the carrier rocket's first stage and the cargo transport spacecraft.

This construction peculiarity was not duly taken into account in the process of the design and tests of the rocket and space complex.

NO LIMITATIONS OF FURTHER OPERATION OF SOYUZ-2.1A WITH OTHER SPACECRAFT ARE DETECTED.

Roscosmos is currently developing a plan of further flight tests of the space complex.

On June 9, Roscosmos will update the schedule of manned launches (and launches of cargo transport spacecraft) for 2015.